

NAME _____

PERIOD _____ DATE _____

ABSOLUTE VALUE FUNCTION

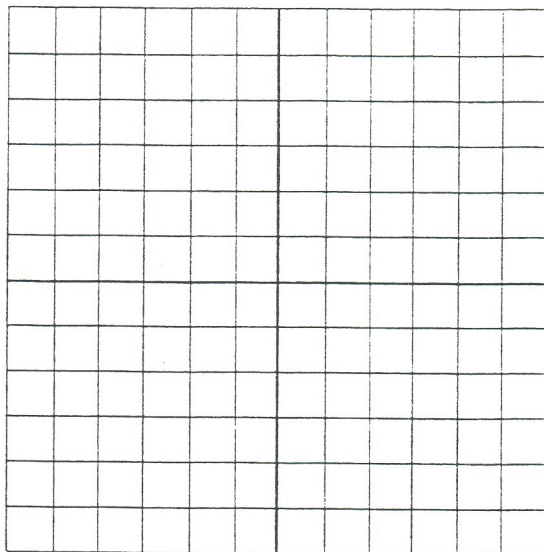
Graph each of these functions.

1) $f(x) = |x|$

2) $f(x) = |x| + 1$

3) $f(x) = |x| - 3$

4) $f(x) = |x| + 2$



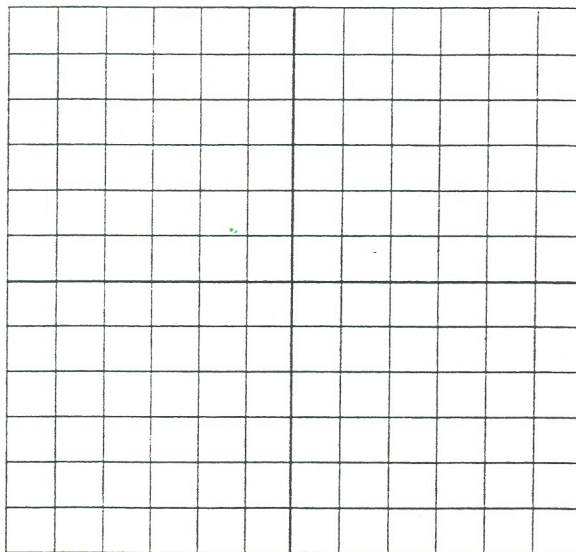
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Consider $f(x) = |x + a| + b$

Conclusions: a – _____

b – _____

Now, using your new found knowledge, graph $f(x) = |x + 1| - 3$ on the coordinate grid above.

Question: What do you think will make the graph of $f(x) = |x|$ wider or narrower?

Provide an example to support your claim.